

Title (en)

METHOD AND SYSTEM FOR SCREENING FOR NEOANTIGENS, AND USES THEREOF

Title (de)

VERFAHREN UND SYSTEM ZUM SCREENING VON NEOANTIGENEN UND VERWENDUNGEN DAVON

Title (fr)

PROCÉDÉ ET SYSTÈME DE CRIBLAGE DE NÉOANTIGÈNES ET LEURS UTILISATIONS

Publication

**EP 4116436 A4 20240131 (EN)**

Application

**EP 21738505 A 20210106**

Priority

- KR 20200002260 A 20200107
- KR 2021000116 W 20210106

Abstract (en)

[origin: EP4116436A1] Provided are a method and system for screening neoantigen and uses of neoantigens. Specifically, provided are a method and system for screening neoantigens derived from a gene of which expression is essential for survival of a cancer cell and/or a is homogeneously expressed in all cells in cancer tissue as a diagnostic and/or therapeutic target, and uses of neoantigens.

IPC 8 full level

**G16B 35/10** (2019.01); **C12Q 1/6886** (2018.01); **G16B 20/20** (2019.01); **G16B 20/30** (2019.01); **G16B 40/20** (2019.01)

CPC (source: EP KR US)

**C12Q 1/6886** (2013.01 - EP KR US); **G16B 5/20** (2019.01 - US); **G16B 20/20** (2019.01 - EP); **G16B 20/30** (2019.01 - EP); **G16B 35/10** (2019.01 - EP KR); **G16B 40/00** (2019.01 - US); **G16B 40/20** (2019.01 - EP); **C12Q 2600/106** (2013.01 - EP); **C12Q 2600/118** (2013.01 - KR US); **C12Q 2600/156** (2013.01 - EP); **C12Q 2600/158** (2013.01 - EP)

Citation (search report)

- [A] SCHUMACHER TON N ET AL: "Cancer Neoantigens", ANNUAL REVIEW OF IMMUNOLOGY, vol. 37, 14 December 2018 (2018-12-14), pages 173 - 200, XP093113706
- [A] SCHUMACHER TON N. ET AL: "Neoantigens in cancer immunotherapy", SCIENCE, vol. 348, no. 6230, 3 April 2015 (2015-04-03), US, pages 69 - 74, XP055866872, ISSN: 0036-8075, DOI: 10.1126/science.aaa4971
- See references of WO 2021141374A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 4116436 A1 20230111**; **EP 4116436 A4 20240131**; CN 114929899 A 20220819; JP 2023509540 A 20230308; KR 102278586 B1 20210716; KR 20210089094 A 20210715; US 2023047716 A1 20230216; WO 2021141374 A1 20210715

DOCDB simple family (application)

**EP 21738505 A 20210106**; CN 202180008361 A 20210106; JP 2022542136 A 20210106; KR 20210001169 A 20210106; KR 2021000116 W 20210106; US 202117791528 A 20210106